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A WEEKLY REVIEW OF CANADIAN CLIMATE

Atmospheric
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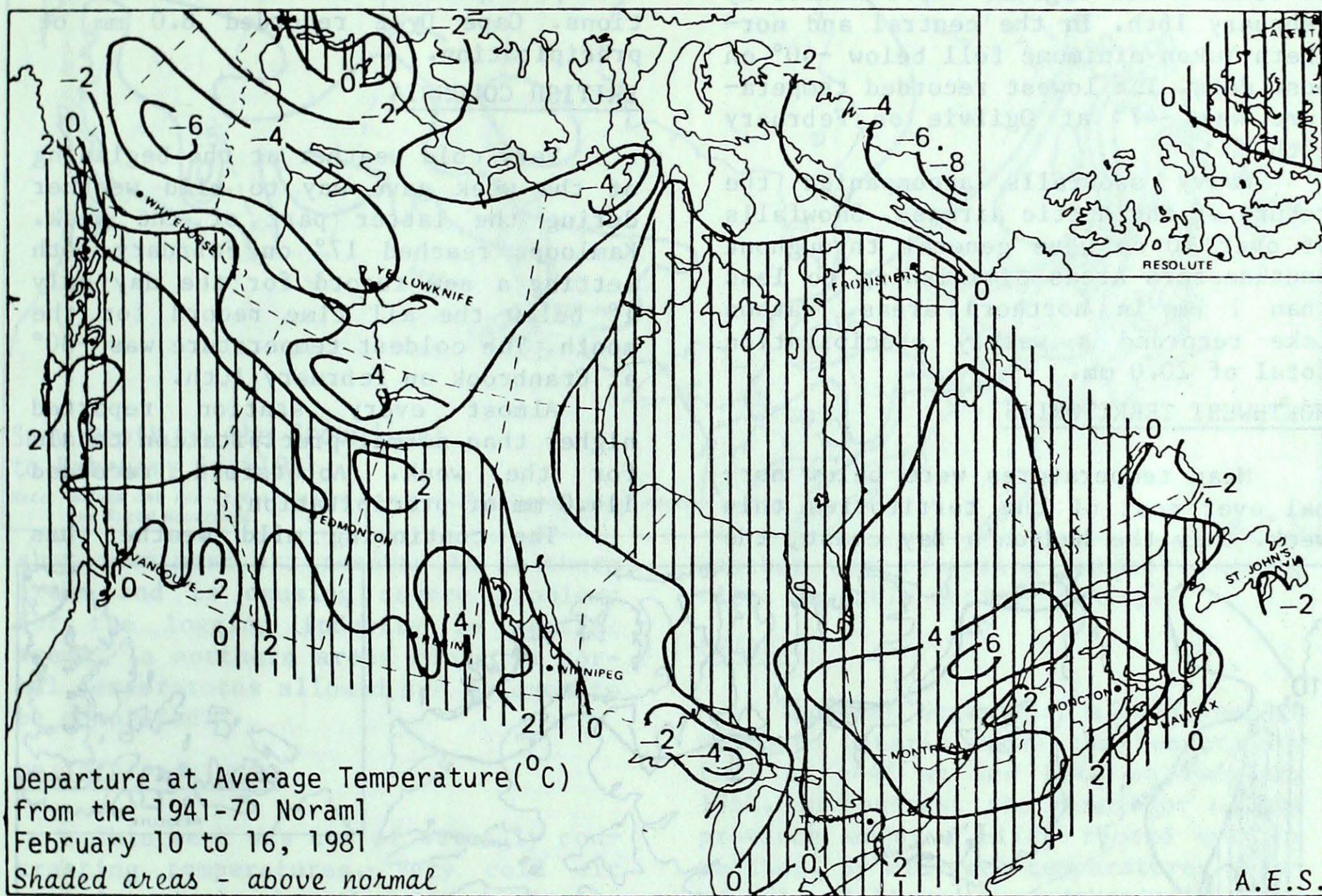
CLIMATIC PERSPECTIVES

THE CANADIAN CLIMATE CENTRE,
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FEBRUARY 20, 1981

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VOL.3 NO.7



WEATHER HIGHLIGHTS FOR THE PERIOD - FEBRUARY 10 TO 16 1981

Winter storm batters the East and mild air returns to the West

On February 11th to 12th a storm moved through eastern areas of the country and pushed temperatures to record levels. Many high temperature records were set for this month. Mild air and rain combined to decimate the snow-cover over Ontario and Québec. Gale force winds combined with the mild air to cause flooding and power disruptions in the Maritimes.

A short lived cold outbreak in the West was replaced by mild air during mid period and temperatures began to reach record breaking levels once again.

Temperatures ranged from 17° at Kamloops, British Columbia to -49° at Shepherd Bay, N.W.T. The highest weekly precipitation total, 114.0 mm was recorded at Abbotsford, B.C.

NOTE: The data shown in this publication are based on unverified reports from approximately 225 Canadian and 115 northern United States Synoptic stations.

YUKON

The Arctic high pressure system took control of the Yukon early in the week. The warmest temperature of the week, 0.0, was recorded at Haines Junction on February 10th. Maximum temperatures were generally 5° to 10° below seasonal values during the week except at Watson Lake where readings managed to climb a few degrees above normal by February 16th. In the central and northern Yukon minimums fell below -40° on most days. The lowest recorded temperature was -47° at Ogilvie on February 13th.

Heavy snowfalls accompanied the return of the Arctic airmass. Snowfalls of over 20 cm were general throughout southeastern areas diminishing to less than 1 cm in northern areas. Watson Lake recorded a weekly precipitation total of 20.0 mm.

NORTHWEST TERRITORIES

Mean temperatures were below normal over most of the territories this week. Only the Hudson's Bay coast, the

Beaufort Sea coast, southern Baffin Island and southern Ellesmere Island recorded above normal mean temperatures. The temperature ranged from a maximum of -9° at Fort Smith on February 14th to a minimum of -49° at Shepherd Bay on February 11th.

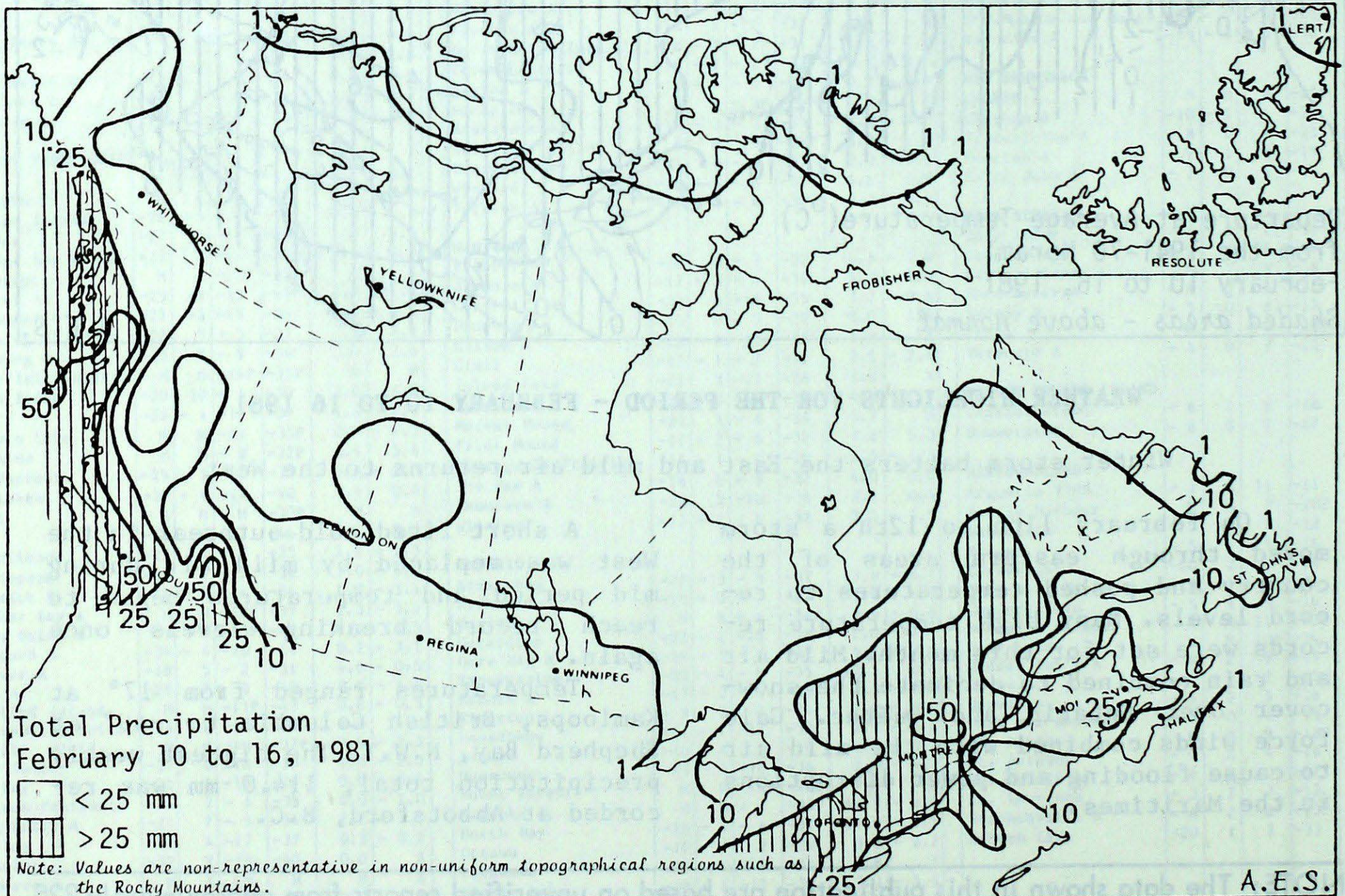
As is to be expected from the cold dry air over the north, most precipitation totals were at or close to zero. Most precipitation fell at coastal stations. Cape Dyer recorded 8.0 mm of precipitation.

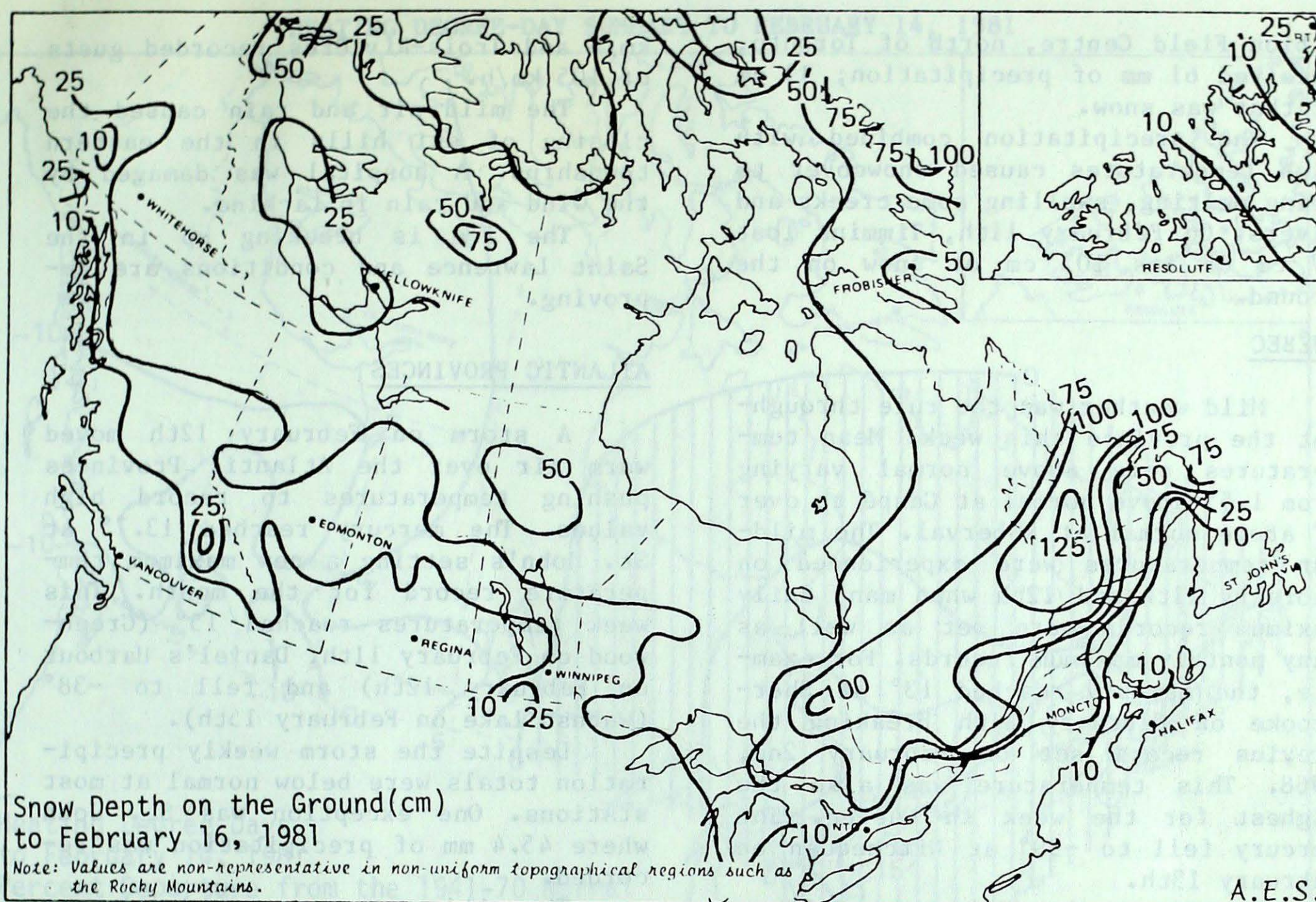
BRITISH COLUMBIA

Very cold weather at the beginning of the week gave way to mild weather during the latter part of the week. Kamloops reached 17° on February 16th setting a new record for the day only 1° below the all time record for the month. The coldest temperature was -30° at Cranbrook on February 10th.

Almost every station reported higher than normal precipitation totals for the week. Abbotsford recorded 114.0 mm of precipitation.

The continuing mild weather has





shut down most ski resorts in southern areas and is causing severe problems for the logging industry in central areas. In northern areas close to normal temperatures allowed ice bridges to be completed.

PRAIRIE PROVINCES

This week was one of strongly contrasting temperatures. Very cold air covering the prairies at the beginning of the week gave way as mild air flooded all areas except the extreme north. Numerous maximum temperature records were broken by week's end, some by large margins. The mercury reached 12° at Rocky Mountain House on February 14th. The temperature fell to -47° at Cree Lake on February 11th.

Despite the influx of warm air little precipitation was received at most stations. The highest weekly total, 9.6 mm, was recorded at Peace River.

Snowcover is once again beginning to disappear and snowdepths are well below normal. In Alberta the mild

weather was rendering outdoor skating rinks unusable during the day.

ONTARIO

The week began with a cold snap in northern Ontario where the temperature fell to -44° at Red Lake on February 11th. In contrast the remainder of the province enjoyed mild, record setting weather. By mid-week temperatures turned cold, followed by another mild period. On February 16th, 19 separate records were established, some by wide margins. (9° at Geraldton breaking the old 1971 record of 0°). The mercury reached 10° at Timmins on the 15th and at Atikokan and Lansdowne House on the 16th.

On February 10th a major storm moved into southern Ontario causing school closures and havoc on the highways. Precipitation began as snow then changed to rain by mid to late afternoon. Some precipitation readings in the south were: Muskoka with 32.6 mm, London with 35.0 mm, Toronto with 29.2 mm, and Peterborough with 43.1 mm.

Albion Field Centre, north of Toronto, received 61 mm of precipitation; 33 cm of that was snow.

The precipitation combined with high temperatures caused snowcover to be melting, swelling some creeks and rivers. On February 11th, Timmins lost 27 cm of its 103 cm of snow on the ground.

QUÉBEC

Mild weather was the rule throughout the province this week. Mean temperatures were above normal varying from 1.5° above normal at Gaspé to over 6° above normal at Roberval. The mildest temperatures were experienced on February 11th and 12th when many daily maximum records were set as well as many monthly maximum records. For example, the mercury reached 13° at Sherbrooke on February 11th breaking the previous record set on February 2nd, 1968. This temperature was also the highest for the week in Québec. The mercury fell to -39° at Nichequan on February 15th.

A storm on the 11th dropped 38 mm of rain of Ste-Agathe and Trois-Rivières establishing a new record for liquid precipitation in the first two weeks of February. Ste-Agathe recorded a total weekly precipitation (rain and snow) of 85.4 mm.

Natashquan reported wind gusts of 130 km/h in the afternoon of February 12th. During the night of February 11th to 12th Gaspé recorded gusts of 110

km/h and Trois-Rivières recorded gusts of 105 km/h.

The mild air and rain caused the closing of ski hills in the eastern townships. A hospital was damaged by the wind and rain in Lachine.

The ice is breaking up in the Saint Lawrence and conditions are improving.

ATLANTIC PROVINCES

A storm on February 12th moved warm air over the Atlantic Provinces pushing temperatures to record high values. The mercury reached 13.7° at St. John's setting a new maximum temperature record for the month. This week temperatures reached 15° (Greenwood on February 11th, Daniel's Harbour on February 12th) and fell to -38° (Wabush Lake on February 15th).

Despite the storm weekly precipitation totals were below normal at most stations. One exception was St. John where 45.4 mm of precipitation was recorded.

The mild temperatures and rain associated with the storm caused extensive flooding in several areas of Nova Scotia. Gale force winds grounded a freighter near St. John and caused numerous power outages.

A high pressure system following the storm on February 13th set new all time high pressure records of over 105.1 kPa at several stations in the Maritimes.

CLIMATIC PERSPECTIVES

Staff

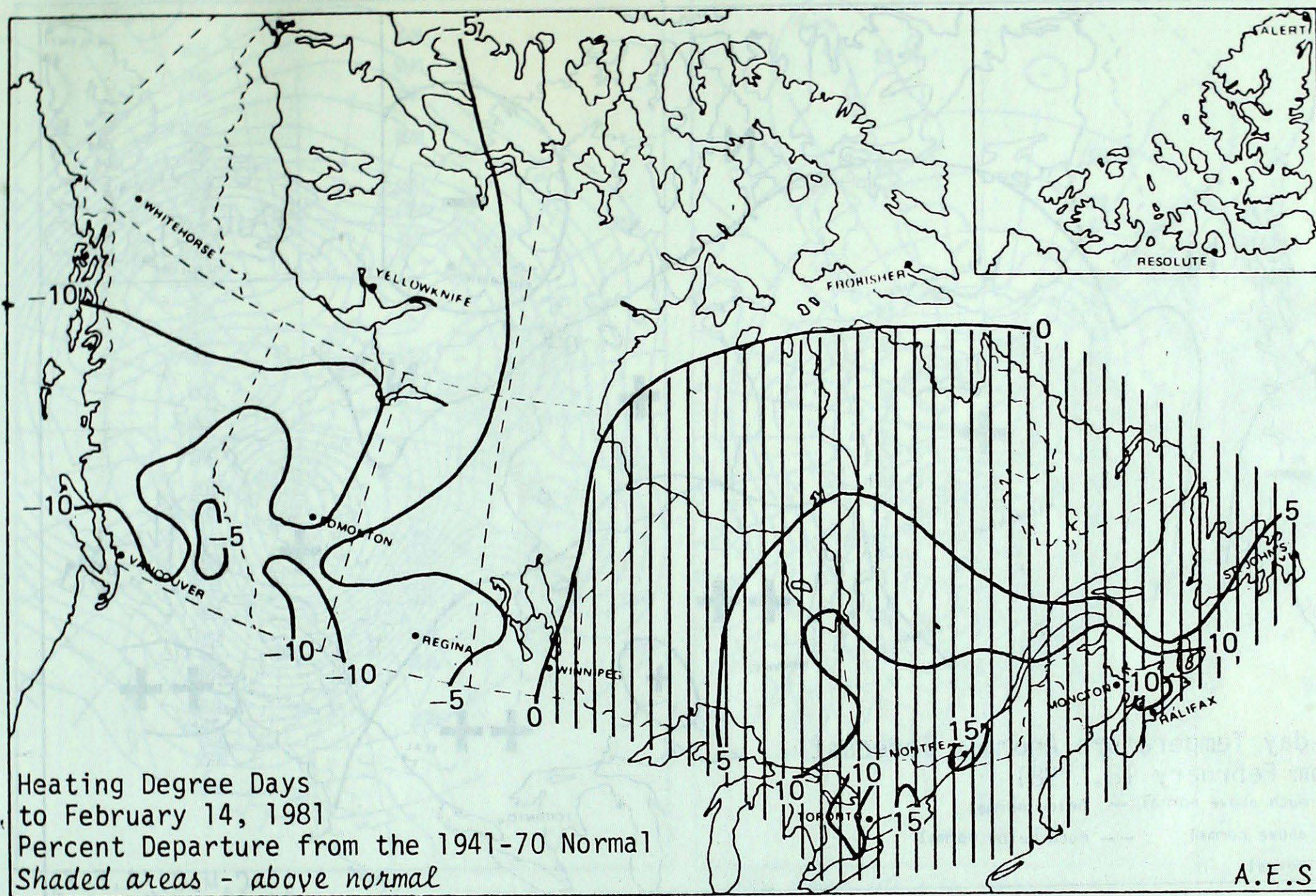
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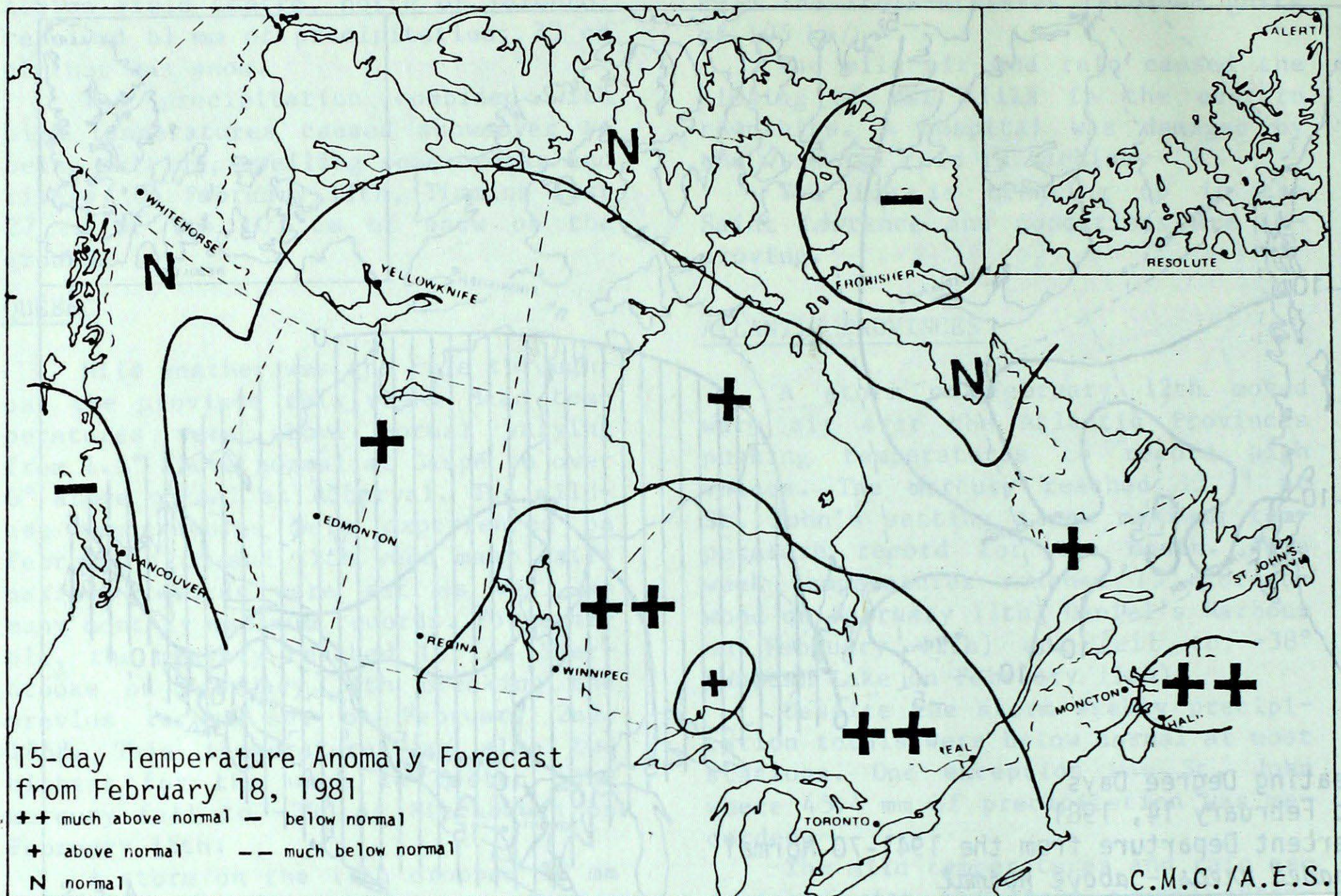
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HEATING DEGREE-DAY SUMMARY TO FEBRUARY 14, 1981



STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	681.0	-47.0	7377.0	-247.0	97
Inuvik	593.5	-90.5	5895.0	-512.0	92
Whitehorse	400.0	-64.0	4280.0	-332.0	93
Vancouver Int'l A	215.5	16.5	1798.0	-117.0	94
Edmonton Mun A	415.5	3.5	3320.0	-396.0	89
Calgary Int'l A	365.0	-12.0	3049.5	-404.5	88
Regina	514.5	43.5	3661.0	-227.0	94
Winnipeg Int'l A	523.0	30.0	3857.0	-9.0	100
Thunder Bay	519.5	65.5	3820.5	147.5	104
Windsor	347.5	32.5	2571.5	257.5	111
Toronto Int'l A	362.0	17.0	2930.0	344.0	113
Ottawa Int'l A	370.5	-28.5	3430.5	386.5	113
Montreal Int'l A	354.5	-41.5	3414.5	515.5	118
Quebec	395.5	-26.5	3721.0	470.0	114
Saint John, N.B.	336.5	-37.5	3216.5	300.5	110
Halifax	298.5	-23.5	2727.5	322.5	113
Charlottetown	324.5	-44.5	3039.5	306.5	111
St. John's, Nfld.	302.5	-25.5	2930.0	184.0	107

15 DAY TEMPERATURE ANOMALY FORECAST

Forecast Method

Analogue technique based on point prediction at 70 Canadian stations.

Temperature Scale

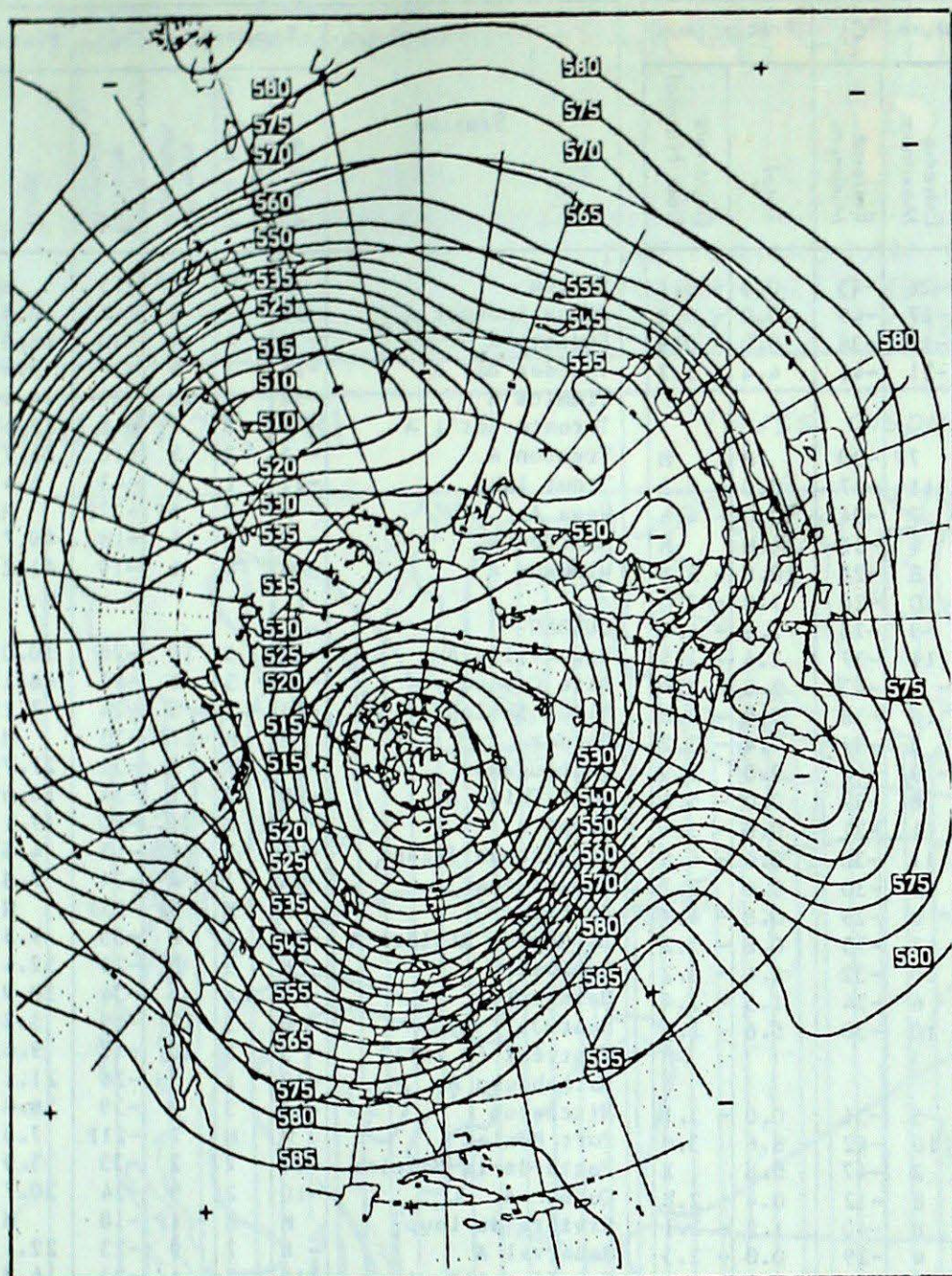
Each temperature class is designed to contain 20% of the historically observed 15 day means pertinent to specific location and time of year:

StationCurrent Temperature Anomaly Forecast

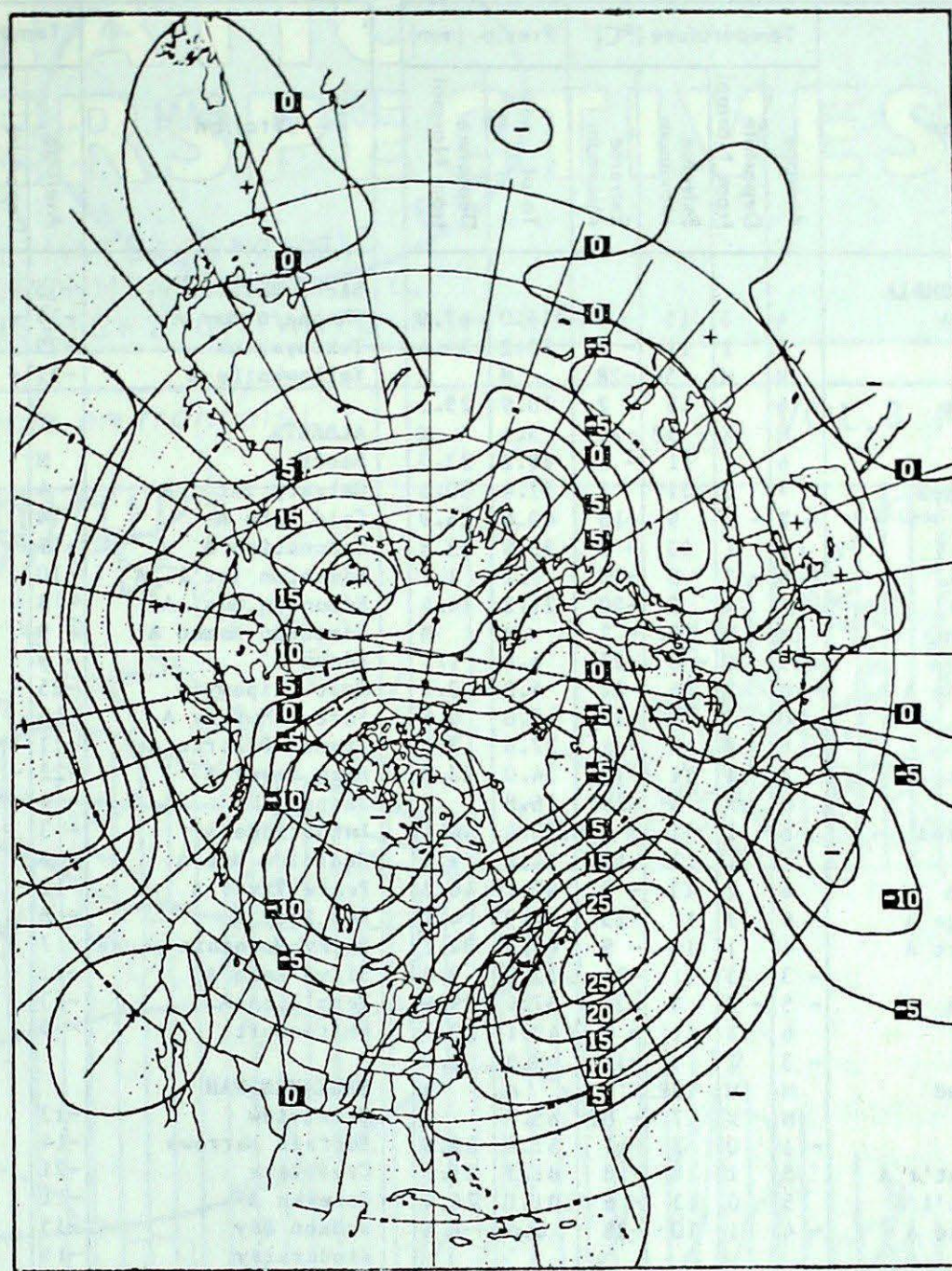
<u>Station</u>	<u>Current Temperature Anomaly Forecast</u>
Whitehorse	Near Normal Within 1.4° of Normal
Victoria	Below Normal From 0.4° to 1.5° below Normal
Vancouver	Below Normal From 0.5° to 1.6° below Normal
Edmonton	Above Normal From 1.2° to 4.2° above Normal
Regina	Above Normal From 1.2° to 4.1° above Normal
Winnipeg	Much Above Normal More than 3.7° above Normal
Thunder Bay	Above Normal From 0.9° to 3.0° above Normal
Toronto	Much Above Normal More than 2.3° above Normal
Ottawa	Much Above Normal More than 2.6° above Normal
Montreal	Much Above Normal More than 2.5° above Normal
Quebec	Much Above Normal More than 2.8° above Normal
Fredericton	Above Normal From 0.8° to 2.8° above Normal
Halifax	Above Normal From 0.6° to 2.0° above Normal
Charlottetown	Much Above Normal More than 2.4° above Normal
St. John's	Above Normal From 0.6° to 2.1° above Normal
Goose Bay	Above Normal From 1.2° to 4.2° above Normal
Frobisher Bay	Below Normal From 1.5° to 5.0° below Normal
Inuvik	Near Normal Within 1.2° of Normal

Note: Anomaly denotes departure from the 1949-73 mean.

Atmospheric Circulation



7-day Mean 50 kPa Height Map (in dam)
February 9 to 15, 1981



7-day Mean 50 kPa Height Anomaly
(in 5 dam intervals) February 9 to 15, 1981

A significant change occurred in the atmospheric circulation over North America this week. The 50 kPa steering flow weakened its north-south component becoming mainly westerly. Mild Pacific air pushed eastwards letting 7 day mean temperatures rise to above normal values across the country. In contrast the Arctic is now registering negative temperature anomalies due to the cut off of mild Pacific air. The Arctic air mass is once again stagnant and losing heat at a rapid rate.

Precipitation amounts varied widely across the country. A moist on-shore flow along the west coast allowed weather systems to move inland; precipitation amounts in British Columbia were closer to normal, while the rain shadow area of the prairies continued to be dry. After a brief but very cold Arctic outbreak early in the week mean temperatures climbed rapidly to reach normal values once again.

The eastern half of the country received significant precipitation amounts and experienced widely contrasting temperatures. A well developed major winter storm tracked northeastwards from the United States Tuesday and Wednesday. A mixture of snow and rain fell on southern and central Ontario, Québec and part of the Maritimes. Some areas north of Toronto received more than 30 cm of snow. By Tuesday evening it had changed to rain with another 25 mm recorded. In the wake of this inclement weather very cold Arctic air approached from the west and was associated with record high pressure values of more than 105.0 kPa. Temperatures dropped rapidly creating hazardous icing conditions.

During the latter half of the week mild Pacific air returned encompassing most of Canada. Balmy, above normal record breaking temperatures were reported at many Canadian centres.

Andy Radomski

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. FEBRUARY 17, 1981

Station	Temperature (°C)				Precip. (mm)		Station	Temperature (°C)				Precip. (mm)		Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal		Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal		Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
BRITISH COLUMBIA							Sachs Harbour	-35	-2	-26	-45	0.3	-0.1	Simcoe	M	M	8P	-15	M	M
Abbotsford A	4	0	15	-9	114.0	67.9	Shepherd Bay A	-39	-4	-27	-49	0.0	-0.9	Sioux Lookout A	-18	-2	8	-42	0.4	-8.4
Alert Bay	5	1	11	-1	70.2	34.4	Tuktoyaktuk	-29	2	-19	-38	0.0	-0.9	Sudbury A	-9	4	4	-30	28.5	17.9
Blue River	M	M	5P	-28	M	M	Yellowknife A	-31	-4	-21	-41	4.4	1.2	Thunder Bay A	-16	-3	9	-37	3.4	-5.3
Bull Harbour	6	1	13	-2	70.9	25.5	ALBERTA							Timmins A	-12	4	10	-33	34.5	23.7
Burns Lake	M	X	5P	-26P	5.6	X	Banff	M	M	7P	-30	M	M	Toronto Int'l A	-5	2	7	-18	29.6	13.3
Cape Scott	6	1	11	-1	99.2	23.3	Calgary Int'l A	-4	3	11	-27	0.0	-5.2	Trenton A	-5	2	9	-16	26.7	8.8
Cape St. James	7	3	11	1	57.4	30.6	Cold Lake A	-14	1	7	-34	0.0	-4.6	Trout Lake	-21	1	8	-43	6.4	0.3
Castlegar A	-2	-2	9	-15	40.0	24.9	Coronation A	-11	1	4	-31	M	M	Wawa A	M	X	5P	-37P	M	X
Comox A	5	1	13	-7	56.8	23.8	Edmonton Int'l. A	-10	1	8	-28	0.8	-3.8	Warton A	-5	3	6	-18	49.7	33.7
Cranbrook	-6	-3	8	-30	7.2	1.7	Edmonton Mun. A	-8	3	10	-26	1.8	-3.0	Windsor A	-4	0	6	-19	41.2	25.0
Dease Lake	-11	4	2	-20	21.2	14.4	Edmonton Namao A	-9	2	9	-28	1.9	-4.4	QUÉBEC						
Estevan Point	M	M	10P	-2	M	M	Edson A	-9	1	11	-37	1.4	-1.5	Bagotville A	-10	5	10	-26	10.0	-7.7
Fort Nelson A	-19	0	-9	-25	6.4	1.1	Fort Chipewyan	-25	-4	-4	-43	2.6	-2.4	Baie Comeau	-10	5	8	-27	48.1	30.3
Fort St. John A	-10	3	6	-22	4.8	-2.2	Fort McMurray A	-15	2	10	-38	0.8	-3.8	Blanc Sablon	-11	-1	5	-24	7.2	-26.3
Kamloops A	0	2	17	-17	5.0	0.8	Grande Prairie A	-11	2	8	-31	4.4	-3.2	Border	M	M	-17P	-33	M	M
Langara	6	2	10	-1	37.6	7.5	High Level A	-22	-6	-9	-40	9.0	2.9	Chibougamau	-15	X	5	-31	27.7	X
Lytton	1	-1	11	-15	34.0	23.0	Jasper	-4	3	8	-27	0.0	-5.6	Fort Chimo A	-20	3	1	-34	16.6	7.8
Mackenzie A	M	X	6	-28P	16.8	X	Lethbridge A	-3	3	11	-31	0.0	-5.4	Gaspé A	-9	X	11	-20	17.1	X
McInnes Island	6	2	11	-1	100.4	44.4	Medicine Hat A	-6	2	11	-30	0.0	-4.6	Grindstone Island	-6	1	7	-15	4.5	-11.7
Penticton A	1	1	13	-16	14.8	9.6	Peace River A	-12	3	6	-30	9.6	2.7	Inoucdjouac	-24	1	-4	-34	7.8	5.9
Port Hardy A	6	2	13	-3	90.1	46.2	Red Deer A	-8	3	8	-29	0.8	-4.7	Koartak	M	X	-9P	-33P	M	X
Prince George A	-4	3	11	-25	14.9	4.1	Rocky Mountain House	-7	1	12	-35	0.6	-5.2	La Grande Rivière A	-21	X	2	-35	9.3	X
Prince Rupert A	4	1	10	-9	87.8	34.2	Slave Lake A	-11	1	10	-32	4.4	-2.2	Maniwaki	-8	5	8	-23	52.4	37.9
Quesnel A	-3	3	11	-24	12.2	3.0	Vermilion A	-13	1	6	-34	1.5	-2.4	Matagami A	-15	X	5	-34	30.9	X
Revelstoke A	-5	-3	5	-21	57.4	29.9	Whitecourt	-9	2	10	-30	5.6	-1.1	Mont-Joli A	-6	5	12	-19	5.2	-15.5
Sandspit	6	3	11	-5	42.1	20.7	SASKATCHEWAN							Montréal (A int.)	-5	5	10	-17	9.6	-12.1
Smithers A	-3	2	9	-19	9.8	2.9	Broadview	-13	4	5	-36	0.0	-3.1	Natashquan A	-10	1	5	-26	21.1	-1.5
Spring Island	M	M	10P	2	M	M	Buffalo Narrows	-14	3	10	-42	8.6	3.0	Nitchecon	-18	3	2	-39	36.8	27.3
Stewart A	M	X	7	-8P	65.7	X	Cree Lake	-21	X	2	-47	0.8	X	Port Menier	M	M	7	-21P	7.3	-13.6
Terrace A	-1	0	7	-11	51.8	32.6	Estevan A	-11	2	8	-32	0.4	-2.8	Poste-de-la-Baleine	-21	2	2	-33	5.9	-0.1
Vancouver Int'l A	5	1	14	-8	81.3	51.7	Hudson Bay	-15	3	8	-40	1.2	-3.1	Québec A	-10	2	9	-24	30.7	8.9
Victoria Int'l A	5	0	13	-6	101.1	76.4	Kindersley	-11	2	4	-29	0.0	-2.5	Rivière du Loup	M	M	-1P	-18	M	M
Williams Lake A	-4	1	10	-28	8.6	2.5	La Ronge A	-17	2	9	-42	1.0	-4.7	Roberval A	-8	7	9	-23	22.1	5.3
YUKON							Meadow Lake A	-16	X	7	-39	0.0	X	Schefferville A	-19	3	4	-33	16.9	4.7
Burwash A	-21	-1	-3	-39	6.8	5.2	Moose Jaw A	-10	2	9	-31	0.6	-2.9	Sept-Iles	M	M	1P	-27	1.5	-21.1
Dawson A	-29	-5	-15	-42	11.5	7.2	Nipawin A	-17	X	6	-37	2.6	X	Sherbrooke A	-6	5	13	-24	8.0	-9.8
Komakuk Beach A	-28	0	-15	-39	2.0	1.7	North Battleford A	-15	0	6	-35	0.8	-4.1	Ste. Agathe des Monts	-9	4	9	-27	85.4	63.8
Mayo A	-27	-6	-16	-42	7.7	3.4	Prince Albert	-17	0	7	-40	2.0	-2.8	Val d'Or A	-11	5	8	-30	25.8	13.9
Shingle Point A	M	M	-17P	-39	0.4	-0.4	Regina A	-13	1	5	-37	0.0	-3.2	NEW BRUNSWICK						
Watson Lake A	-18	0	-10	-27	20.0	12.8	Rockglan	M	X	5P	-31	M	X	Charlo A	-9	3	14	-22	3.4	-18.0
Whitehorse A	-18	-3	-5	-34	15.5	12.2	Saskatoon A	-14	1	4	-34	0.2	-4.4	Chatham A	-6	4	13	-18	20.9	0.9
NORTHWEST TERRITORIES							Swift Current A	-9	2	7	-31	0.3	-3.1	Fredericton A	-6	3	12	-25	21.4	1.4
Alert	-32	2	-26	-42	1.3	0.1	Uranium City	-27	-2	-6	-45	2.7	-4.4	Moncton A	-5	3	12	-17	21.2	-0.5
Baker Lake	-35	-1	-19	-44	5.4	4.0	Wynyard	-14	4	4	-35	0.2	-2.9	Saint John A	-5	2	11	-17	45.4	18.1
Broughton Island	-29	-6	-22	-36	0.8	-3.9	Yorkton A	-14	2	7	-35	0.0	-4.7	NOVA SCOTIA						
Byron Bay	M	M	-29P	-44	2.2	2.1	MANITOBA							Eddy Point	-5	X	10	-15	6.1	X
Cambridge Bay A	-36	-1	-26	-43	0.0	-1.2	Bissett	-17	-1	8	-43	0.5	-5.1	Greenwood A	-3	2	15	-15	3.6	-19.1
Cape Dorset	-25	X	-18	-30	3.4	X	Brandon A	M	M	6	-35P	0.0	-5.1	Sable Island	-1	0	9	-9	0.0	-26.9
Cape Dyer A	-30	-9	-20	-43	8.0	-11.2	Churchill A	-26	1	-4	-39	3.7	1.5	Shearwater A	-4	1	10	-14	5.3	-24.6
Cape Hooper	-30	-5	-23	-35	7.8	-1.6	Dauphin A	-14	2	7	-35	0.5	-4.6	Sydney A	-5	1	11	-15	8.7	-18.1
Cape Parry A	-30	1	-22	-40	2.0	1.4	Gillam A	-23	X	1	-41	2.3	X	Truro	-4	3	12	-16	24.6	2.7
Cape Young A	-33	-3	-22	-43	0.0	-1.6	Gimli	-16	0	8	-38	0.0	-6.3	Yarmouth A	-2	1	10	-13	3.6	-24.1
Chesterfield Inlet	M	M	M	M	M	M	Island Lake	-20	X	8	-41	6.0	X	PRINCE EDWARD ISLAND						
Clinton Point	-29	-1	-22	-37	0.0	-0.1	Lynn Lake	-22	0	4	-40	4.2	-3.6	Charlottetown	-5	2	12	-15	9.4	-12.5
Clyde	-31	-4	-22	-39	3.2	1.2	Norway House	-21	X	3	-44	1.6	X	Summerside	-5	2	11	-15	1.8	-18.2
Contwoyto Lake	-35	-4	-26	-42	6.1	4.3	Pilot Mound	-15	0	5	-34	0.0	-4.4	NEWFOUNDLAND						
Coppermine	-32	-1	-23	-39	0.7	-0.6	Portage la Prairie	-13	2	9	-33	0.0	-5.4	Argentia VTMS	-4	X	12	-12	2.1	X
Coral Harbour	-29	1	-21	-39	4.1	1.8	The Pas A	-18	1	7	-40	3.7	-0.5	Battle Harbour	-11	-3	5	-23	0.2	-24.2
Dewar Lakes	-30	-4	-21	-37	0.4	-0.1	Thompson A	-23	-1	4	-44	2.6	-1.4	Bonavista	-5	-1	10	-15	0.8	-24.8
Ennadai	M	M	-32P	-41	M	M	Winnipeg	-15	1	7	-37	0.0	-5.0	Burgeo	-6	-1	6	-15	4.4	-42.2
Eureka	-38	0	-31	-46	0.7	0.1	ONTARIO							Cartwright	M	M	10	-35P	2.8	-14.2
Fort Reliance	-31	-3	-16	-45	3.6	1.0	Armstrong	-19	0	9	-39	1.2	-7.2	Churchill Falls A	-17	1	8	-34	14.8	-1.4
Fort Simpson	-27	-3	-20	-39	7.8	3.2	Atikokan	-17	-1	10	-42	0.2	-5.3	Comfort Cove	-7	-1	13	-19	0.6	-16.5
Fort Smith A	-26	-2	-9	-41	4.5	0.5	Earlton	M	M	7P	-31	M	M	Daniel's Harbour	-5	2	15	-18	19.0	-2.8
Frobisher Bay A	-25	2	-14	-36	6.1	0.4	Geraldton	-18	0	9	-41	2.2	-4.7	Deer Lake	-7	1	12	-17	13.6	-11.9
Gladman Point A	M	M	-27P	-45	1.0	0.4	Gore Bay A	-7	3	4	-31	19.5	7.2	Gander Int'l A	-7	0	12	-18	1.7	-23.9
Hall Beach A	-32	0	-21	-47	2.2	-1.1	Kapuskasung	-15	2	4	-34	20.4	7.4	Goose A	-14	0	10	-30	20.8	4.2
Hay River A	-26	-2	-13	-36	4.3	-1.4	Kenora A	-15	0	6	-35	0.0	-7.8	Hopedale	-14	1	7	-30	8.6	-2.2
Inuvik A	-32	-1	-20	-45	1.8	-0.6	Kingston	-4	4	6	-16	41.4	27.8	Port aux Basques	-6	-2	4	-14	2.0	-36.8
Jenny Lind Island																				